

ABSTRACT OF THE DISCLOSURE

Nucleic acid and amino acid sequences of the Omp85 proteins of *N. gonorrhoeae* and *N. meningitidis*, and fragments thereof are useful in vaccine compositions, therapeutic compositions and diagnostic compositions for use in the prevention, treatment and diagnosis of non-symptomatic gonococcal infection or symptomatic disease and non-symptomatic meningococcal infection and symptomatic disease. Antibodies are developed to these proteins and also useful in the compositions and methods described herein.